Grade 4 Mathematics Standards-based Skills Worksheet

Studer	nt:	Date:
Compl	eted by (name):	Position:
Schoo	l Division:	
1. Rev	riew SOL strand for	2. Review data on student performance and indicate all data
	er and Number Sense I.1a-c, 4.2a-c, & 4.3a-d)	sources analyzed to assess performance in this strand: □ Present Level of Performance (PLOP) □ Prior SOL data □ Standardized test data □ Classroom assessments □ Teacher observations
3. Che	ck the areas that will require specially des	igned instruction critical to meeting the standard.
The st	udent will use problem solving, mathemati	ical communication, mathematical reasoning, connections, and
•	entations to	written form, the placed value for each digit in whole numbers
	expressed through the one millions place.	ns place that are presented in standard format, and select the
	matching number in written format. Write whole numbers through the one million	ns place in standard format when the numbers are presented orally
_ _		n, less than, and equal to. ough the one millions, using symbols >, <, or =. ne one millions place to the nearest thousand, ten thousand, and
T L4	hundred-thousand place.	
	udent will use problem solving, mathemati entations to	ical communication, mathematical reasoning, connections, and
		nators of 12 or less, using manipulative models and drawings, such
	Compare and order fractions with like denon	ninators by comparing number of parts (numerators) (e.g, $\frac{1}{5} < \frac{3}{5}$).
		rators and unlike denominators by comparing the size of the parts
	(e.g., $<\frac{3}{5}$).	
		denominators of 12 or less by comparing the fractions to benchmarks
	(e.g., 0, $\frac{1}{2}$ or 1) to determine their relationship	nips to the benchmarks or by finding a common denominator.
	denominators of 12 or less.	numerical value of fractions and mixed numbers having
	models.	ths, using region/area models, set models, and measurement
	Identify the division statement that represent	ts a fraction (e.g., $\frac{3}{5}$ means the same as 3 divided by 5).
		ical communication, mathematical reasoning, connections, and
repres	entations to Investigate the ten-to-one place value relation	onship for decimals through thousandths, using Base-10
۰	manipulatives (e.g., place value mats/charts	
	representations, and numerical symbols (e.g. Identify and communicate, both orally and in	g., relate the appropriate drawing to 0.05). written form, the position and value of a decimal through
		in the hundredths place and has a value of 0.08. thousandths, using Base-10 manipulatives, drawings, and
	numerical symbols.	mousandins, using base-10 manipulatives, drawings, and

	Described a simple to the account whole remarks a tenth, and have doubt		
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	Order a set of decimals from least to greatest or greatest to least.		
	Represent fractions for halves, fourths, fifths, and tenths as decimals through hundredths, using concrete objects		
	(e.g., demonstrate the relationship between the fraction $\frac{1}{4}$ and its decimal equivalent 0.25).		
		•	
	squares, decimal circles, money [coins]).	e objects (e.g., 10-by-10 grids, meter sticks, number lines, decimal	
		1 1	
	Write the decimal and fraction equivalent for	r a given model (e.g., $\frac{1}{4} = 0.25$ or $0.25 = \frac{1}{4}$).	
Г		-	
4. Is/A	re standard-based goal(s) needed?	□ NO Check one or more justifications:	
		☐ Accommodations Available (specify):	
	Address areas of need in PLOP	☐ Area of Strength in PLOP	
		☐ New Content	
		☐ Other (Specify):	
5. Note	es Supporting Data Analysis		
1. Rev	view SOL strand for	2. Review data on student performance and indicate all data	
		sources analyzed to assess performance in this strand:	
Comp	utation and Estimation	☐ Present Level of Performance (PLOP)	
	4.4 a-b, 4.5a-d)	☐ Prior SOL data	
(552	1.4 a b, 4.0a a)	☐ Standardized test data	
		☐ Classroom assessments	
		☐ Teacher observations	
		l reactier observations	
3 Che	ock the areas that will require specially de	signed instruction critical to meeting the standard	
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4. Is/Are standard-based goal(s) needed?	☐ NO Check one or more justifications: ☐ Accommodations Available (specify):	
☐ YES Address areas of need in PLOP	☐ Area of Strength in PLOP ☐ New Content ☐ Other (Specify):	
5. Notes Supporting Data Analysis		

Review SOL strand for	2. Review data on student performance and indicate all data sources analyzed to assess performance in this strand:
Measurement (SOL 4.6a-b, 4.7a-b, 4.8a-b, 4.9)	☐ Present Level of Performance (PLOP) ☐ Prior SOL data ☐ Standardized test data
	☐ Classroom assessments ☐ Teacher observations

3. Check the areas that will require specially designed instruction critical to meeting the standard.

The student will use problem solving, mathematical communication, mathematical reasoning, connections, and representations to

Determine an appropriate unit of measure (e.g., ounce, pound, ton, gram, kilogram) to use when measuring everyday objects in both metric and U.S. Customary units.

Measure objects in both metric and U.S. Customary units (e.g., ounce, pound, ton, gram, or kilogram) to the nearest appropriate measure, using a variety of measuring instruments.

Record the mass of an object including the appropriate unit of measure (e.g., 24 grams).

The student will use problem solving, mathematical communication, mathematical reasoning, connections, and representations to

Determine an appropriate unit of measure (e.g., inch, foot, yard, mile, millimeter, centimeter, and meter) to use when measuring everyday objects in both metric and U.S. Customary units.

Estimate the length of everyday objects (e.g., books, windows, tables) in both metric and U.S. Customary units of measure.

Measure the length of objects in both metric and U.S. Customary units, measuring to the nearest inch $(\frac{1}{2}, \frac{1}{4}, \frac{1}{8})$, foot,

yard, mile, millimeter, centimeter, or meter, and record the length including the appropriate unit of measure (e.g., 24 inches).

Compare estimates of the length of objects with the actual measurement of the length of objects.

Identify equivalent measures of length between units within the U.S. Customary measurements and between units within the metric measurements.

The student will use problem solving, mathematical communication, mathematical reasoning, connections, and representations to

Determine an appropriate unit of measure (cups, pints, quarts, gallons) to use when measuring liquid volume in U.S. Customary units.

Estimate the liquid volume of containers in U.S. Customary units of measure to the nearest cup, pint, quart, and gallon. Measure the liquid volume of everyday objects in U.S. Customary units, including cups, pints, quarts, and gallons, and record the volume including the appropriate unit of measure (e.g., 24 gallons).

Identify equivalent measures of volume between units within the U.S. Customary system.

The student will use problem solving, mathematical communication, mathematical reasoning, connections, and representations to

Determine the elapsed time in hours and minutes within a 12-hour period (times can cross between a.m. and p.m.). Solve practical problems in relation to time that has elapsed.

4. Is/A	re standard-based goal(s) needed?	□ NO Check one or more justifications:
□ YES	Address areas of need in PLOP	☐ Accommodations Available (specify): ☐ Area of Strength in PLOP
	7 (1000 0.1000 0.11000 II.) Lev	☐ New Content Temperature ☐
		☐ Other (Specify):
5. Note	es Supporting Data Analysis	
1. Rev	view SOL strand for	2. Review data on student performance and indicate all data
Geom	etry (SOL 4.10a-b. 4.11a-b & 4.12a-b)	sources analyzed to assess performance in this strand: □ Present Level of Performance (PLOP)
Ocom	ony (002 4.100 b. 4.110 b a 4.120 b)	☐ Prior SOL data
		☐ Standardized test data
		☐ Classroom assessments ☐ Teacher observations
		La reacher observations
3. Che	ck the areas that will require specially des	signed instruction critical to meeting the standard.
The	tudant will was muchlane calving mathematic	tical communication mathematical recogning commeticate and
	sentations to	tical communication, mathematical reasoning, connections, and
	Identify and describe representations of poin	nts, lines, line segments, rays, and angles, including endpoints and
_	vertices.	,
	Understand that lines in a plane can interse	ct or are parallel. Perpendicularity is a special case of intersection.
	Identify practical situations that illustrate par	allel, intersecting, and perpendicular lines.
	tudent will use problem solving, mathema sentations to	tical communication, mathematical reasoning, connections, and
	 Recognize the congruence of plane figures resulting from geometric transformations such as translation, reflection, and rotation, using mirrors, paper folding and tracing. 	
The s	student will use problem solving, mathema	atical communication, mathematical reasoning, connections and
	sentation to	
	□ Define and identify properties of polygons with 10 or fewer sides.	
	Identify polygons by name with 10 or fewer sides in multiple orientations (rotations, reflections, and translations of the polygons).	
4. Is/A	re standard-based goal(s) needed?	□ NO Check one or more justifications:
□ YES	Address areas of need in PLOP	☐ Accommodations Available (specify): ☐ Area of Strength in PLOP
	7.66.555 4.545 5. 11554 11.1 201	☐ New Content
		☐ Other (Specify):

5. Notes Supporting Data Analysis

1. Review SOL strand for		2. Review data on student performance and indicate all data
Probability and Statistics (SOL 4.13a-b, 4.14,)		sources analyzed to assess performance in this strand: Present Level of Performance (PLOP) Prior SOL data Standardized test data Classroom assessments Teacher observations
3 Che	ck the areas that will require specially des	igned instruction critical to meeting the standard.
		-
	udent will use problem solving, mathemati entations to	ical communication, mathematical reasoning, connections, and
	Model and determine all possible outcomes	of a given simple event where there are no more than 24 possible such as coins, number cubes, and spinners.
	Write the probability of a given simple event	as a fraction, where the total number of possible outcomes is 24 or
	•	and relate it to its fractional representation (e.g., impossible/0;
	equally likely/ $\frac{1}{2}$; certain/1).	
	Determine the outcome of an event that is let than half) when the number of possible outc	east likely to occur (less than half) or most likely to occur (greater
	Represent probability as a point between 0 a	
	•	ical communication, mathematical reasoning, connections, and
· 🗖	questionnaires.	ns, measurement, surveys, scientific experiments, polls, or
	Organize data into a chart or table. Construct and display data in bar graphs, la	beling one axis with equal whole number increments of 1 or more
	(numerical data) (e.g., 2, 5, 10, or 100) and	the other axis with categories related to the title of the graph poating, and water skiing as the categories of "Favorite Summer
	Construct and display data in line graphs, la more and the horizontal axis with continuous and age). Line graphs will have no more tha example, growth charts showing age versus	beling the vertical axis with equal whole number increments of 1 or s data commonly related to time (e.g., hours, days, months, years, in 10 identified points along a continuum for continuous data. For height place age on the horizontal axis (e.g., 1 month, 2 months, 3
	months, and 4 months). Title or identify the title in a given graph and	label or identify the axes.
	differences, the total number). Data points will be limited to 30 and categories to 8.	
	sport preferred by most is swimming, which is what I predicted before collecting the data.").	
		analysis and interpretation of the data, identifying parts of the data rategories with the greatest, the least, or the same.
<u>4 ς/Δι</u>	re standard-based goal(s) needed?	□ NO Check one or more justifications:
	,	☐ Accommodations Available (specify):
□ YES	Address areas of need in PLOP	□ Area of Strength in PLOP□ New Content□ Other (Specify):

5. Notes Supporting Data Analysis

1. Review SOL strand for	2. Review data on student performance and indicate all data	
Detterne Forefore on I Almahaa	sources analyzed to assess performance in this strand:	
Patterns, Functions, and Algebra	☐ Present Level of Performance (PLOP)	
(SOL 4.15, 4.16)	☐ Prior SOL data	
	☐ Standardized test data	
	☐ Classroom assessments	
	☐ Teacher observations	
3. Check the areas that will require specially des	igned instruction critical to meeting the standard.	
The student will use problem solving mathemat	ical communication, mathematical reasoning, connections, and	
representations to	ical communication, mathematical reasoning, connections, and	
□ Describe geometric and numerical patterns, using tables, symbols, or words.		
	sing concrete materials, number lines, tables, and words.	
	ical communication, mathematical reasoning, connections, and	
representations to	our communication, matriomatical reaccining, comments, and	
•	sign (=) relates equivalent quantities in an equation.	
	, , , , , , , , , , , , , , , , , , , ,	
4. Is/Are standard-based goal(s) needed?	□ NO Check one or more justifications:	
	☐ Accommodations Available (specify):	
☐ YES Address areas of need in PLOP	☐ Area of Strength in PLOP	
	☐ New Content	
	☐ Other (Specify):	

5. Notes Supporting Data Analysis